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(54) Title: PROCESS FOR HYDROLYTICALLY DEPOLYMERIZING A POLYAMIDE

(57) Abstract: A process for hydrolytically depolymerizing polyamide comprised in a chemical feedstock F, wherein the process comprises providing the chemical feedstock F, providing a liquid aqueous stream S_w , preparing a mixture comprising the feedstock F and the liquid aqueous stream S_w and subjecting said mixture to polyamide 6 depolymerisation conditions in a chemical reaction unit U_R , obtaining an aqueous stream S_E leaving U_R , the stream S_E comprising ϵ -caprolactam, wherein the mixture to be subjected to polyamide 6 depolymerisation conditions comprises the polyamide 6 and further comprises polyethylene terephthalate and polyamide 6.6 at a mass ratio $i_s = (m_{PA6.6} + m_{PET}) / m_{PA6}$ with $0.01 \leq i_s \leq 2.5$.